

CERTIFICATE OF MAILING

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Casey Hagopian

**PATENT**

Attorney Docket No. 20434-736

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application

PATENT APPLICATION

Inventor(s): Mohammed Islam

Art Unit: Not Assigned

Application No.: 09/719,591

Examiner: Not Assigned

Filed: December 12, 2000

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Title: Fiber-Optic Compensation For Dispersion, Gain

)

Tilt and Band Pump Nonlinearity

)

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed below or on an attached Form PTO-1449 is information known to applicant(s). A copy of each listed publication and U.S. and foreign patent, except for pending U.S. applications, is being submitted herewith, along with a concise explanation of information in a foreign language, if any, pursuant to 37 C.F.R. §1.97-1.98.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. If form PTO-1449 is enclosed, the Examiner is requested to initial and return it in accordance with MPEP §609.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56.

BEST AVAILABLE COPY

This statement qualifies under 37 C.F.R. §1.97, subsection (b) because (check all that apply):

- (1) It is being filed within 3 months of the application filing date and is other than a continued prosecution application under § 1.53(d)
-- OR --
 - (2) It is being filed within 3 months of entry of a national stage
-- OR --
 - (3) It is being filed before the mail date of the first Office Action on the merits
-- OR --
 - (4) It is being filed before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.
- 37 C.F.R. §1.97(c). If this statement is being filed after the latest of: (1) three months beyond the filing date of a national application; (2) three months beyond the date of entry of the national stage as set forth in §1.491 in an international application; or (3) the mailing date of a first Office action on the merits, but before the mailing date of the earlier of a final office action under §1.113 or a notice of allowance under §1.311, then:
- a certification as specified in §1.97(e) is provided below; **or**
 - a fee of \$240.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.
- 37 C.F.R. §1.97(d). If this statement is being filed after the mailing date of the earlier of a final office action under §1.113 or a notice of allowance under §1.311, but before payment of the issue fee, then:
- A. a certification as specified in §1.97(e) is completed below; and
 - B. a petition under 37 C.F.R. §1.97(d) requesting consideration of this statement is submitted herewith; **and**
 - C. a fee of \$130.00 as set forth in §1.17(i)(1) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.
- Fee Authorization.* The Commissioner is hereby authorized to charge the above-referenced fees of \$0.00 and charge any additional fees or credit any overpayment associated with this communication to Deposit Account No. 23-2415 (Docket No. 20434-736).

Dated: 4/20/05

Respectfully submitted,

WILSON SONSINI GOODRICH & ROSATI

By:


Paul Davis, Reg. No. 29,294

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INFORMATION DISCLOSURE CITATION PTO-1449		ATTY. DOCKET NO. 20434-736	SERIAL NO. 09/719,591
APR 25 2001 U.S. PATENT & TRADEMARK OFFICE PATENT & TRADEMARK OFFICE			
APPLICANT Islam			
		FILING DATE 12/12/00	GROUP Not Assigned

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	4,063,106	12/113/77	Ashkin et al.	307	88.3	
	4,685,107	8/4/87	Kafka et al.	372	6	
	4,740,974	4/26/88	Byron	372	3	
	5,039,199	8/13/91	Mollenauer et al.	359	334	
	5,050,183	9/17/91	Duling, III	372	94	
	5,058,974	10/22/91	Mollenauer	385	27	
	5,117,196	5/26/92	Epworth et al.	359	333	
	5,132,976	7/21/92	Chung et al.	372	6	
	5,134,620	7/28/92	Huber	372	6	
	5,191,586	3/2/93	Huber	372	6	
	5,191,628	3/2/93	Byron	385	27	
	5,218,655	6/8/93	Mizrahi	385	39	
	5,268,910	12/7/93	Huber	372	6	
	5,295,016	3/15/94	Van Deventer	359	347	
	5,323,404	6/21/94	Grubb	372	6	
	5,359,612	10/25/94	Dennis et al.	372	18	
	5,450,427	9/12/95	Fermann et al.	372	18	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER**DATE CONSIDERED**

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION PTO-1446 <i>1 P E</i> 		ATTY. DOCKET NO.		SERIAL NO.		
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U.S. PATENT DOCUMENTS						
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	5,473,622	12/5/95	Grubb	372	6	
	5,477,555	12/19/95	Debeau et al.	372	25	
	5,479,291	12/26/95	Smith et al.	359	333	
	5,485,481	1/16/96	Ventrudo et al.	372	6	
	5,497,386	3/5/96	Fontana	372	18	
	5,504,771	4/2/96	Vahala et al.	372	94	
	5,513,194	4/30/96	Froberg et al.	372	6	
	5,521,738	5/28/96	Froberg	359	184	
	5,530,710	6/25/96	Grubb	372	6	
	5,541,947	7/30/96	Mourou et al.	372	25	
	5,542,011	7/30/96	Robinson	385	24	
	5,577,057	11/19/96	Frisken	372	18	
	5,617,434	4/1/97	Tamura et al.	372	6	
	5,623,508	4/22/97	Grubb et al.	372	3	
	5,659,559	8/19/97	Ventrudo et al.	372	6	
	5,673,281	9/30/97	Byer	372	3	
	5,734,665	3/31/98	Jeon et al.	372	6	
FOREIGN PATENT DOCUMENTS						
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INFORMATION DISCLOSURE CITATION  PTO-1449		ATTY. DOCKET NO. 20434-736		SERIAL NO. 09/719,591		
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		FILING DATE 12/12/00		GROUP Not Assigned		
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	5,757,541	5/26/98	Fidric	359	341	
	5,838,700	11/17/98	Dianov et al.	372	6	
	5,841,797	11/24/98	Ventrudo et al.	372	6	
	5,847,862	12/8/98	Chraplyvy et al.	359	337	
	5,861,981	1/19/99	Jabr	359	341	
	5,880,866	3/9/99	Stolen	359	138	
	5,883,736	3/16/99	Oshima et al.	359	341	
	5,887,093	3/23/99	Hansen et al.	385	27	
	5,920,423	7/6/99	Grubb et al.	359	341	
	5,768,012	6/16/98	Zanoni et al.	359	341	
	5,673,280	9/30/97	Grubb et al.	372	3	
	5,659,644	8/19/97	DiGiovanni et al.	385	31	
	5,389,779	2/14/95	Betzig et al.	250	216	
	5,323,404	6/21/94	Grubb	372	6	
	5,226,049	7/6/93	Grubb	372	6	
	5,225,925	7/6/93	Grubb et al.	359	341	
	5,825,520	10/20/98	Huber	359	130	
FOREIGN PATENT DOCUMENTS						
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EXAMINER	DATE CONSIDERED					

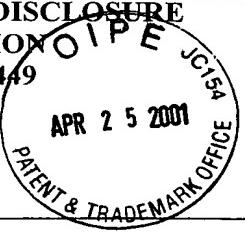
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	5,825,520	10/20/98	Huber	359	130		
	5,798,855	8/25/98	Alexander et al.	359	177		
	5,726,784	3/10/98	Alexander et al.	359	125		
	5,701,186	12/23/97	Huber	359	125		
	5,659,351	8/19/97	Huber	348	7		
	5,600,473	2/4/97	Huber	359	179		
	5,579,143	11/26/96	Huber	359	130		
	5,557,442	9/17/96	Huber	359	179		
	5,555,118	9/10/96	Huber	359	125		
	5,532,864	7/2/96	Alexander et al.	359	177		
	5,504,609	4/2/96	Alexander et al.	359	125		
	5,467,212	11/14/95	Huber	359	168		
	5,416,629	5/16/95	Huber	359	182		
	5,400,166	3/21/95	Huber	359	173		
	5,373,389	12/13/94	Huber	359	195		
	5,331,449	7/19/94	Huber et al.	359	125		
	5,321,707	6/14/94	Huber	372	6		
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EXAMINER	DATE CONSIDERED						

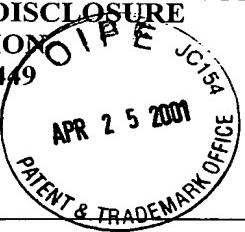
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	5,321,543	6/14/94	Huber	359	187	
	5,301,054	4/5/94	Huber et al.	359	132	
	5,295,209	3/15/94	Huber	385	37	
	5,293,545	3/8/94	Huber	359	111	
	5,283,686	2/1/94	Huber	359	337	
	5,271,024	12/14/93	Huber	372	6	
	5,257,124	10/26/93	Glaab et al.	359	124	
	5,243,609	9/7/93	Huber	372	9	
	5,222,089	6/22/93	Huber	372	6	
	5,212,579	5/18/93	Huber et al.	359	182	
	5,210,631	5/11/93	Huber et al.	359	132	
	5,208,819	5/4/93	Huber	372	32	
	5,200,964	4/6/93	Huber	372	26	
	5,187,760	2/16/93	Huber	385	37	
	5,166,821	11/24/92	Huber	359	238	
	5,159,601	10/27/92	Huber	372	6	
	5,153,762	10/6/92	Huber	359	125	
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	5,151,908	9/29/92	Huber	372	6	
	5,140,456	8/18/92	Huber	359	341	
	5,268,910	12/7/93	Huber	372	6	
	5,107,360	4/21/92	Huber	359	124	
	4,831,616	5/16/89	Huber	370	3	
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						YES
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Sun, Y. et al., "80nm Ultra-Wideband Erbium-Doped Silicia Fibre Amplifier" ELECTRONICS LETTERS, November 6, 1997, Vol. 33, No. 23, pp. 1965-1967					
	Wysocki, P.F. et al., "Broad-Band Erbium-Doped Fiber Amplifier Flattened Beyond 40nm Using Long-Period Grating Filter", IEEE PHOTONICS, Vol. 9, No. 10, October 10, 1997, pp. 1343-1345					
	Liaw, S-K et al., "Passive Gain-Equilized Wide-Band Erbium-Doped Fiber Amplifier Using Samarium-Doped Fiber", IEEE PHOTONICS TECHNOLOGY: LETTERS, Vol. 8, No. 7, July 7, 1996, pp. 879-881					
	Yamada, M. et al., "A Low-Noise and Gain-Flattened Amplifier Composed of a Silica-Based and a Fluoride-Based Er3+-Doped Fiber Amplifier in a Cascade Configuration", IEEE PHOTONICS LETTERS, Vol. 8, No. 5, May 1996, pp. 620-622					
	Ma, M.X. et al., "240-km Repeater Spacing in a 5280-km WDM System Experiment Using 8x2.5 Gb/s NRZ Transmission", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 10, No. 6, June 1998, pp. 893-895					
	Masuda, H. et al., "Ultrawide 75-nm 3-dB Gain-Band Optical Amplification with Erbium-Doped Fluoride Fiber Amplifiers and Distributed Raman Amplifiers", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 10, No. 4, April 1998, pp. 516-518					
EXAMINER		DATE CONSIDERED				

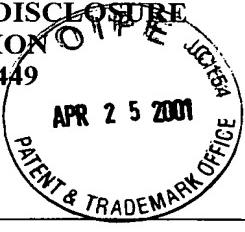
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						YES	NO
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Masuda, H. et al., "Wide-Band and Gain Flattened Hybrid Fiber Amplifier Consisting of an EDFA and a Multiwavelength Pumped Raman Amplifier", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 11, No.6, June 1999, pp. 647-649 ✓						
	Kawaii, S. et al., "Ultra-Wide, 75nm 3dB Gain-Band Optical Amplifier Utilising Gain-Flattened Erbium-Doped Fluoride Fibre Amplifier and Discrete Raman Amplification", ELECTRONIC LETTERS, Vol. 34, No. 9, April 30, 1998, pp. 897-898 ✓						
	Kawai, S. et al., "Ultrawide, 75nm 3dB Gain-Band Optical Amplifier Utilizing Erbium-Doped Fluoride Fiber and Raman Fiber", OFC TECHNICAL DIGEST, 1998 ✓						
	Kidorf, H. et al., "Pump Interactions in a 100-nm Bandwidth Raman Amplifier", IEEE ELECTRONICS TECHNOLOGY LETTERS, Vol. 11, No. 5, May 1999, pp.530-532 ✓						
	Ono, H. et al., "Gain-Flattened Er3+-Doped Fiber Amplifier for a WDM Signal in the 1.57-1.60-μm Wavelength Region", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 9, No. 5, May 1997, pp.596-598 ✓						
	Hansen, P.B. et al., "529km Unrepeatered Transmission at 2.488 Gbit/s Using Dispersion Compensation, Forward Error Correction, and Remote Post-and Pre-amplifiers Pumped By Diode-Pumped Raman Lasers", IEEE ELECTRONICS LETTERS ONLINE NO. 19951043, July 7, 1998 ✓						
	Guy, M.J. et al., "Lossless Transmission of 2ps Pulses Over 45km of Standard Fibre at 1.3μm Using Distributed Raman Amplification", ELECTRONICS LETTERS, Vol. 34, No.8, April 6, 1998, pp. 793-794 ✓						
	Dianov, E.M. et al., "Highly Efficient 1.3μm Raman Fibre amplifier", ELECTRONICS LETTERS, Vol. 34, No. 7, April 2, 1998, pp. 669-670 ✓						
	Chernikov, S.V. et al., "Raman Fibre Laser Operating at 1.24μm", ELECTRONICS LETTERS, Vol. 34, No.7, April 2, 1998, pp. 680-681 ✓						
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	Liaw, S-K et al., "Passive Gain-Equilized Wide-Band Erbium-Doped Fiber Amplifier Using Samarium-Doped Fiber", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 8, No. 7, July 1996, pp. 879-881 ✓					
	Masuda, M. et al., "Wideband, Gain-Flattened, Erbium-Doped Fibre Amplifiers with 3dB Bandwidths of >50nm", ELECTRONICS LETTERS, Vol. 33, No. 12, June 5, 1997, pp. 1070-1072 ✓					
	Yang, F.S. et al., "Demonstration of Two-Pump Fibre Optical Parametric Amplification", ELECTRONICS LETTERS, Vol. 33, No. 21, October 9, 1997, pp. 1812-1813 ✓					
	Kawai, S. et al., "Wide-Bandwidth and Long-Distance WDM Transmission Using Highly Gain-Flattened Hybrid Amplifier", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 11, No. 7, July 1999, pp. 886-888 ✓					
	Paschotta, R. et al., "Ytterbium-Doped Fiber Amplifiers", IEEE JOURNAL OF QUANTUM ELECTRONICS, Vol. 33, No. 7, July 1997, pp. 1049-1056 ✓					
	Chernikov, S.V. et al., "Raman Fibre Laser Operating at 1.24 μm" ELECTRONICS LETTERS, Vol. 34, No. 7, April 2, 1998, pp. 680-681 ✓					
	Grubb, S.G. et al., "Fiber Raman Lasers Emit at Many Wavelengths", LASER FOCUS WORLD, February 1996, pp. 127-134 ✓					
	Mollenauer, L.F. et al., "Dispersion-Managed Solitons for Terrestrial Transmission", OPTICAL SOCIETY OF AMERICA, 1999 ✓					
	Hansen, S. L. et al., "Gain Limit in Erbium-Doped Fiber Amplifiers Due to Internal Rayleigh Backscattering", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 4, No. 6, June 1992, pp. 559-561 ✓					
	Spirit, D.M. et al., "Systems Aspects of Raman Fibre Amplifiers", OPTICAL AMPLIFIERS FOR COMMUNICATION, Vol. 137, Pt. J, No. 4, August 1990, pp. 221-224 ✓					
	Mollenauer, L.F. et al., "Soliton Propagation in Long Fibers with Periodically Compensated Loss", IEEE JOURNAL OF QUANTUM ELECTRONICS, Vol. QE-22, No. 1, January 1986, pp. 157-173 ✓					
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Marhic, M.E. et al., "Cancellation of Stimulated-Raman-Scattering Cross Talk in Wavelength-Division-Multiplexed Optical Communication Systems by Series or Parallel Techniques", OPTICAL SOCIETY OF AMERICA, 1998, Vol. 15, No. 3, pp. 958-963						
	Hansen, P.B. et al., "Rayleigh Scattering Limitations in Distributed Raman Pre-Amplifiers", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 10, No. 1, January 1998, pp. 159-161						
	Ikeda, M., "Stimulated Raman Amplification Characteristics in Long Span Single-Mode Silica Fibers", OPTICS COMMUNICATIONS, Vol. 39, No. 3, 1981, pp. 148-152						
	Solbach, K. et al., "Performance Degradation Due to Stimulated Raman Scattering in Wavelength-Division-Multiplexed Optical-Fibre Systems", ELECTRONICS LETTERS, Vol. 19, No. 6, August 4, 1983, pp. 641-643						
	Grandpierre, A.G. et al., "Theory of Stimulated Raman Scattering Cancellation in Wavelength-Division-Multiplexed Systems via Spectral Inversion", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 11, No. 10, October 1999, pp. 1271-1273						
	Chinn, S.R. "Analysis of Counter-Pumped Small-Signal Fibre Raman Amplifiers", ELECTRONICS LETTERS, Vol. 33, No. 7, March 27, 1997, pp. 607-608						
	Stolen, R.H. et al., "Raman Gain in Glass Optical Waveguides", APPL. PHYS. LETT. Vol. 22, No. 6, March 15, 1973, pp. 276-278						
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EXAMINER		DATE CONSIDERED					

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.